Product information

Monoclonal anti-human HMGB1 antibody (clone J2E1)

Mouse IgG_{2b}, κ

Cat. No. IBAHM0915

Immunogen : Recombinant human HMGB1 (1-215aa) purified from High Five (*Trichoplusia ni*) insect cells.

NCBI Accession No.: NP_002119

Isotype: Mouse IgG_{2b} heavy chain and κ light chain

Clone: Anti-human HMGB1 mAb, clone J2E1, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human HMGB1 protein.

Description: High mobility group box1 protein (HMGB1) is a very abundant chromatin-binding protein residing in the eukaryotic cell nucleus and acting in the assembly of nucleoprotein complexes. Inside the cell, HMGB1 binds to DNA and has a role in transcriptional regulation. Outside the cell, HMGB1 acts as a cytokine and has activities that resemble those of tumor necrosis factor.

Concentration: 1 mg/ml

Form: Liquid. In Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% Glycerol.

Storage: Can be stored at +4°C. For long term storage, aliquot and store at -20°C. Avoid repeated freezing and thawing cycles.

Usage: The antibody has been tested by ELISA, Western blot and immunohistochemistry analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results. Recommended dilution range for Western blot is 1:500 ~ 1:2,000 and immunohistochemistry analysis is 1:100~300.
Recommended starting dilution for Western blot is 1:1,000 and Immunohistochemistry is 1:200.

Application: ELISA, WB, IHC

Manufactured for:
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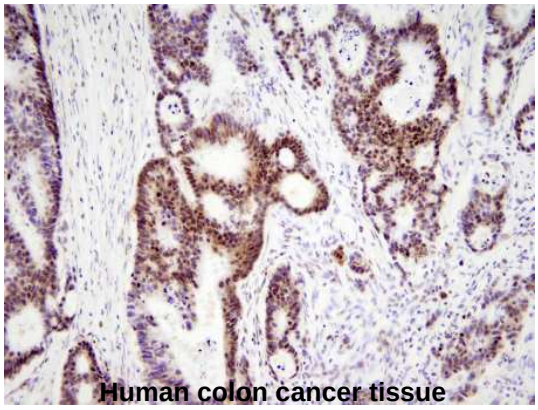
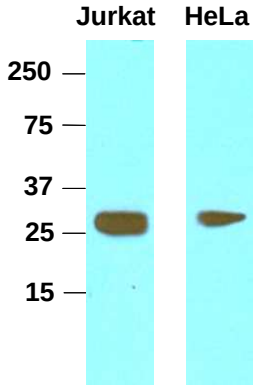
Immunohistochemistry

Paraffin embedded sections of human colon cancer tissue were incubated with anti-human HMGB1 (1:200) for 2 hours at room temperature. Antigen retrieval was performed in 0.1M sodium citrate buffer and detected using Diaminobenzidine (DAB)



Western blot analysis

Cell lysates of Jurkat and HeLa (30ug) were resolved by SDS-PAGE, transferred to NC membrane and probed with anti-human HMGB1 (1:1,000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.



General references : Palumbo R J, *et al.,* (2004) *Cell Biol.* Feb 2; **164**(3)

Andersson U, *et al.,* (2002) *Leukoc Biol.* Dec; **72**(6):1084-91

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